

Effects of Dexamethasone and temperature on mRNA expression in an immortalised clone of human bone marrow stromal cells

mRNA	I Daniel and	T.CC			·
IIIKINA	Present at	Effects of	Present at	Effects of	Primary
	33°C	Dex	· 390C	Dex	OB-like
					cells
IL-1α	YES		··NO		NO
IL-1β	YES	-	NO		NO
IL-3	NO	•	NO		NO
IL-4	NO		NO		NO
IL-6	YES	NE	YES		
IL-8	YES	NE	NO	_ _	YES
GM-CSF		111		+	YES
	YES	-	. NO		NO
TNFα	YES	+	NO		NO
Collagen I	YES	NE	YES	-	Not Done

= Increase in expression = Decrease in expression

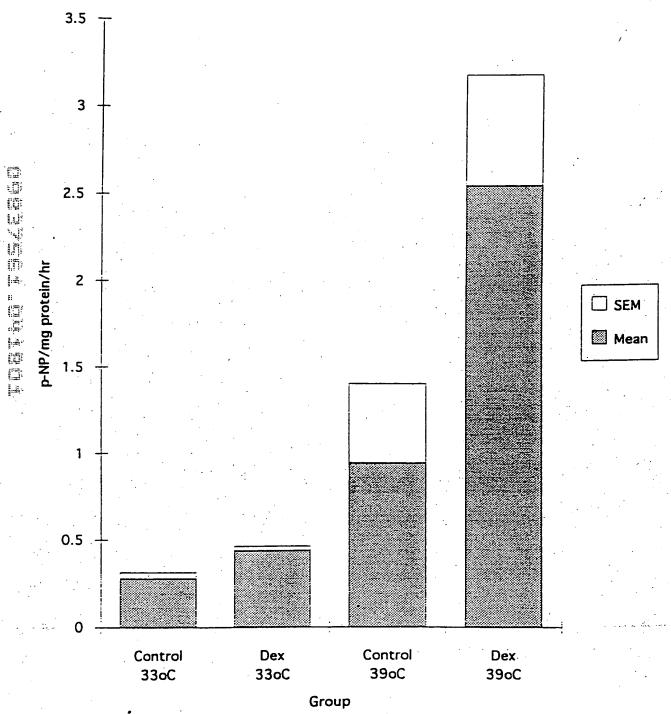
NE = No effect

5 x 10-7M Dexamethasone for 7 days

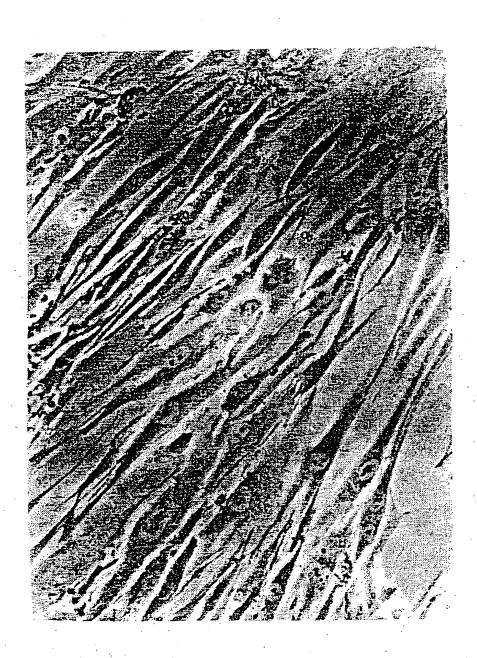
TABLE 1

SUBSTITUTE SHEET (RULE 26)

Effects of temperature and Dexamethasone (5 x 10 -7M) on alkaline phospha tase activity of HBMSC clone 7 cells







Von Kossa staining control 33°C micropic view

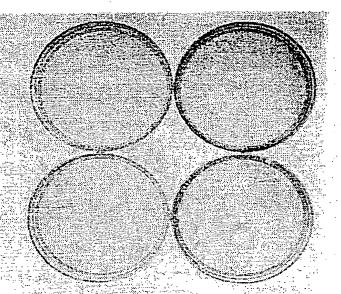


Von Kossa staining microscopic view dexamethasone 39°C 5x10-7m

-Dex

+Dex

All at 39°C



Mixed Pop

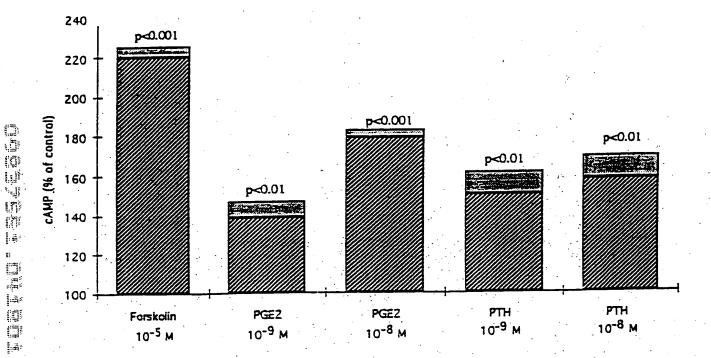
Clone 7

Macroscopic view of Von Kossa staining.

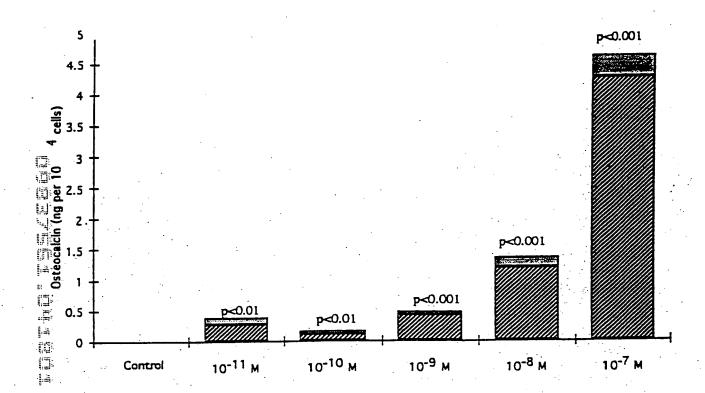
5 16

Clone 7 39°C +Dex 5x10⁻⁷m

Macroscopic view of Von Kossa staining for clone 7 and Dexamethasone $5 \times 10^{-7} m$ at $39^{\circ} C$



Error bars = SEM, n=4
All groups compared to control for statistical analysis (student's t-test).



Error bars = SEM, n=4
All groups compared to control for statistical analysis (student's t-test).

FIGURE 7

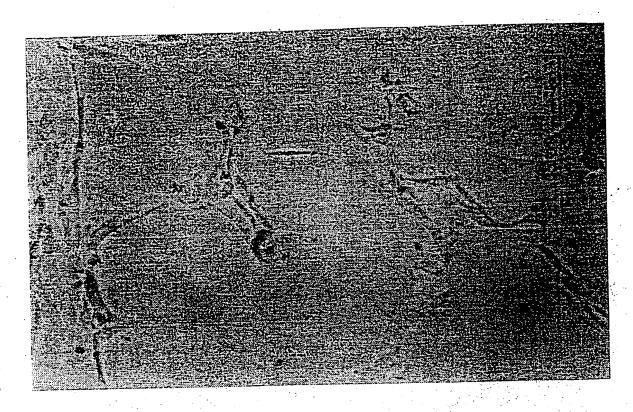


FIGURE 8

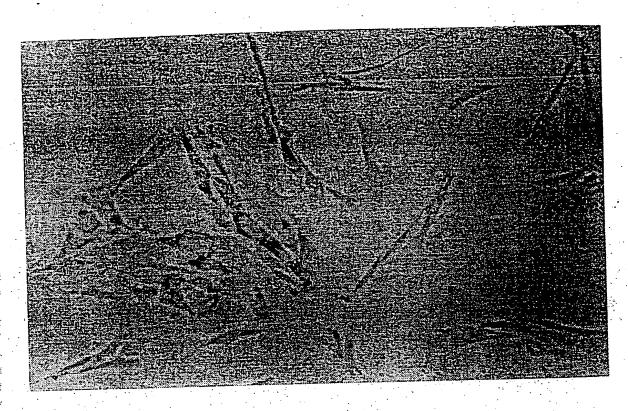
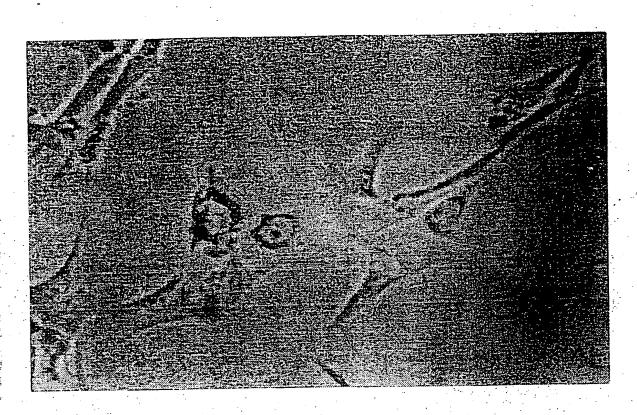


FIGURE 9



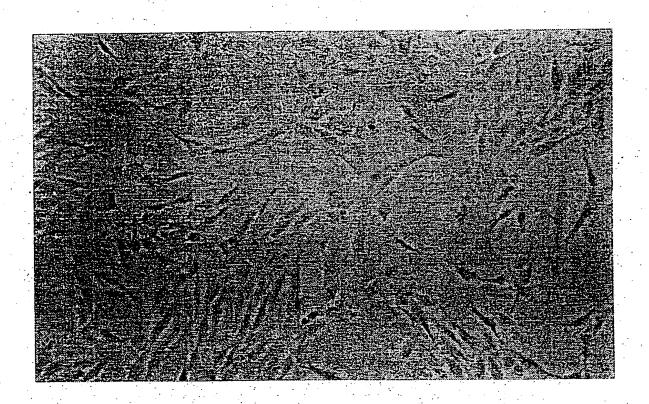


FIGURE 11

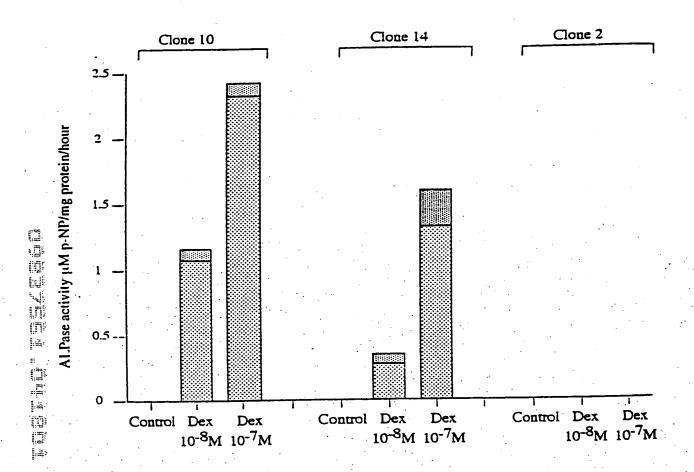
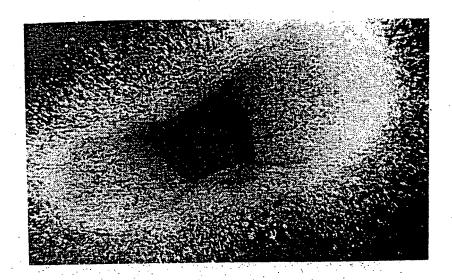
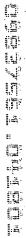


FIGURE 12



Femur derived from a human foetus 7-9 weeks of gestation and of approximately $600\,\mu\mathrm{m}$ in length.



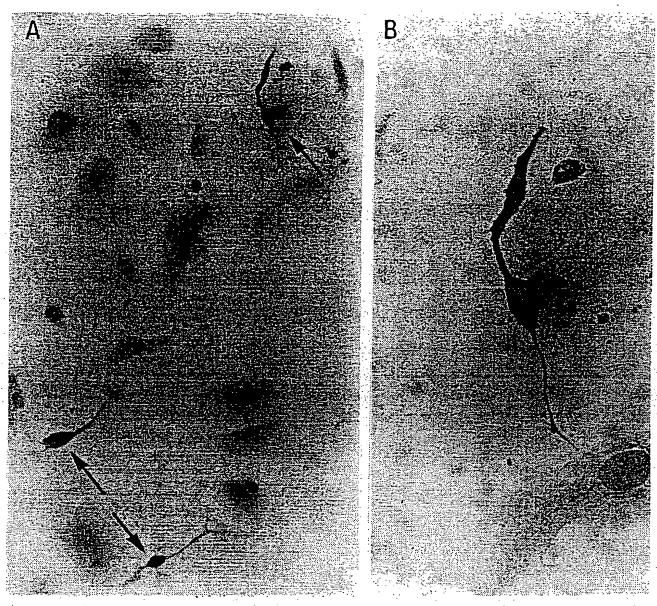


FIGURE 14

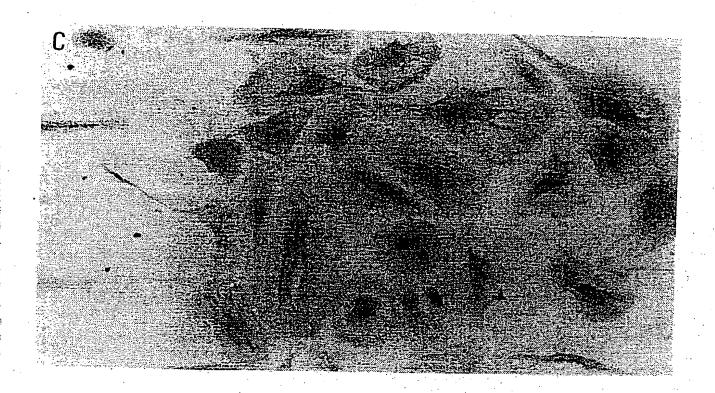


FIGURE 14